

ALBERTA ENVIRONMENT
LIST OF ENVIRONMENTAL EDUCATION
PUBLICATIONS

September, 1981

Brochures	2
Directories	2
Posters	3
Resource Information	3
Environment Views	4
Kits	6
Fact Finders	7
General Information	7
Aerial Photo Studies	9
Camps	9
Crafts	?
Conservator Society	10
Green Plants	?
French Language Texts	10
Language Arts	10
Mapping and Orienteering Activities	11
Mini-Beasts	12
Observation and Recording Exercises	14
Seasonal Fun	15
Skits and Games	15
Water Studies	16
Wind Studies	17

CANADIAN GOVERNMENT PUBLICATIONS
DE PUBLICA TION S DU GOUVERNEMENT
CANADIEN
NATIONAL LIBRARY / BIBLIOTHEQUE NATIONALE
CANADA

BROCHURES

Air Quality Fact Sheet --available in class sets	(jr. high and high school)
Environmental Cope Kit --Air Pollution Guide --Water Pollution Guide	(teachers only)
Environmental Issues: What Are They	(teachers only)
Hazardous Waste Fact Sheets --14 information bulletins about hazardous wastes management in Alberta: from disposal sites & techniques to social concerns.	(jr. high and high school)
IQUA: An Air Quality Index for Alberta --Calgary/Edmonton	(jr. high and high school)
Pesticide Fact Sheet --available in class sets	(jr. high and high school)
Recycling in Alberta	(teachers only)
The Story of Water Supply --available in class sets with teachers guide	(upper elementary)
Understanding Alberta Lakes	(jr. high and high school)

DIRECTORIES

Environment Education Publications

A selected annotated listing of commercially available texts, activity guides and periodicals considered useful to teachers of environmental topics.

Government Environmental Resource Materials Guide - Fall 1980

The fourth draft version of a publication to assist teachers in obtaining useful free resource materials to supplement environmental studies.

POSTERS

Air is life, Land is life, Water is life (colour, 28" x 18")
suitable for classroom display.

RESOURCE INFORMATION

Alberta's Shores*

A 20-minute film outlining the uses and conflicts affecting Alberta's shorelands.

*Films are available at the six regional film libraries of the Department of Education, and at both Edmonton and Calgary public and separate school board film libraries.

Community Surveys In Alberta

A fact finder on an excellent data source for social studies teachers interested in studying their local community.

Next Time Around*

A description and suggestions of how to use the award winning 20-minute film on the various aspects of recycling and waste.

OWL Magazine

A technique how to get better use out of OWL. Includes where to write for subscriptions.

WEDGE/VEEP

Environmental resources for teachers: fully developed curriculum materials written by teachers. The focus is on developing student appreciation and awareness of their immediate environment. Publication list included.

The Glut

A grade three or four comic/workbook available in class sets which deals with "How a family like yours could turn into thoughtless consumers". (A teacher's guide is available as well).

Hall of Fame Game

A Division II unit running five weeks. Students are given the opportunity to identify the mystery animal of the week. Contents include a day-by-day activity description of the first week, a guess sheet, frame for the mystery guest, follow-up worksheets, first two weeks of clues, and a list of animal possibilities.

Mosquito Kit--Learning About Resource Management

A collection of ideas and activities related to mosquitoes and their management ideally useful to high school biology or junior high science students. Included are suggestions for field and lab studies as well as skits and case studies.

Rodeo

A division I and II interdisciplinary unit describing the sport and lifestyle of rodeo. This unit offers students a study on the human environment. Lesson plans and activities explaining different types of rodeos, rodeo events, competitors and rodeo history are provided. Also included are listings of local Alberta rodeos.

School Yard Seasonal Map

A grade one and two interdisciplinary year-round study of environmental change in the schoolyard. Contents include a large poster, approximately 30 seasonal activities, techniques for outdoor studies, poetry and reference materials.

What Am I? -- A Classroom Activity for Studying Alberta Animals

A short unit of study for grade seven students which introduces concepts related to food chains using 22 animals of Alberta.

FACT FINDERS

GENERAL INFORMATION

Instructing Environmental Fact Seekers

A set of transparency masters and student worksheets are provided to assist in instructing students on the process of fact finding. Useful to teachers and librarians involved in student report/assignment style projects.

An Information Storage System

A fact finder describing a system to ensure proper filing and easy retrieval of resource materials collected by the teacher. Especially useful to librarians or high school teachers.

Defining Environmental or Outdoor Education

A self-help guide to defining two terms so often misunderstood by teachers.

Field Trip Mechanics - A Checklist for Teachers

A short list of "what to remember" for outdoor environmental education field tripping.

Four R's for Interpreting Here and Now

Reality, Relevance, Responsibility and Relatedness as presented by Joy Finlay at Association of Canadian Interpreters Conference.

Implications for Lower Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.

Implications for Middle Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.

Implications for Upper Elementary Environmental Studies

A list of generalizations pertaining to the capabilities of these children.

The Mind-Set Exercise (all levels)

A fact finder describing a simple exercise applicable at any grade level that establishes the knowledge base and vocabulary level of students about to study new subject matter.

What Is Happening To Our Planet? (3-6)

A set of copy masters for a cartoon series on environmental problems.

A Set of Mini-Posters (1-4)

A set of three, page-size, poster masters useful for Division I student activity.

Constructing A Classroom Ecosystem (4-12)

A fact finder describing a simple yet long-term experiment/-demonstration that dramatically illustrates the "spaceship earth" concept.

AERIAL PHOTO STUDIES

(Jr. High/High School)

An activity set on your school and neighborhood.

A packet or individual activities are available:

Obtaining Aerial Photographs of Schools, Communities and Other Sites

Aerial Photo Activity--A Puzzle

An Aerial Photo Activity--Identification

An Aerial Photo Activity--Measurement

An Aerial Photo Activity--Using Grids

Aerial Photo Activity--Mini-Grids

A class set of aerial photos

CAMPS

Botch-Upmanship (8-12)

An article for students preparing for an extended field trip involving camping.

Environmental Awareness at Camp

An article by Dr. John J. Kirk on the importance of an ecological approach to the teaching of natural sciences in the outdoors.

Litter (4-7)

Ideas for camp directors and teachers for organizing litter cleanups at camps or on the school grounds.

Some Techniques for Carrying Out Environmental Studies at Camps

A set of activities for camp or outdoor studies.

CRAFTS (1-7)

A reprint of a series of outdoor crafts, using the natural environment as a stimulus.

CONSERVER SOCIETY

A Survey of A FAST FOOD STAND (7-12)

Environmental decision making in the market place: A Look at Out Lifestyle

Waste Not Want Not (4-8)

Ideas for a short study on waste; arithmetic and social studies skills are emphasized.

GREEN PLANTS: (Indoor-Outdoor Studies)

FLOWERS:

Flower Talk (1-3)

Students use technical terms to explore and describe, not memorize, the parts of a flower. A tulip game is included.

What A Beauty (2-4)

Students are encouraged to observe how flowers advertise to attract different animals. A short bibliography, masters for a daffodil and lily are included.

GROWING PLANTS:

Herb Helpers (1-6)

Students will learn how to care for a plant. Information on six herbs, growing instructions and interesting branching out activities are featured.

Plants from Cuttings (4-7)

Indoor-outdoor activities that assist students in growing plants from cuttings and learning techniques for propagating indoor plants.

Growing Bulbs (4-7)

Growing plants from bulbs provides students with some basic greenhouse techniques and a focal point for developing monitoring and observation skills.

Plants from Seed (4-7)

Activities that assist students to start bedding flowers from seed.

LEAVES:

How Different a Leaf Can Be (2-5)

Observation, classifying, comparing skills are emphasized by having students explore the different kinds of leaves found in Alberta.

Leaves Structure and Function (4-7)

Leaf arrangement is used as a focal point for developing, observing and inferring skills. A student sheet is included.

Leaf Looker (5-7)

Vocabulary useful in describing leaf types and edges are introduced. Four different student worksheets are included.

PLANT IDENTIFICATION: (Describing, Classifying, Keying)

Describing Native Flora (6-7)

Indoor-outdoor activities involving detailed studies of common local plants, including plant identification. A student sheet is included.

All Keyed Up (7-11)

Indoor-outdoor Studies. Classification activities to appreciate the diversity of leaf forms. Two leaf identification sheets, a classification chart and key are included.

Plant Zones (7-11)

Indoor-outdoor Studies. After a review of some common native plants students study the locations in which these plants grow: plant zones of succession. Three student study sheets are included.

Plant Keying by Random Access Cardsort (10-12)

Indoor-Outdoor Studies. Information from a plant key is transferred to key-sort cards. Students can then use cards as a means of identifying local plants. Key-sort cars are included.

WEEDS:

Weeds and Seeds (3-6)

This is a late spring activity focussing on a plant's ability to reproduce seed. A student tally sheet is included.

Identifying Weeds and Wildflowers (4-7)

Students do some background study, limited collecting and identification of commonly found plants to their areas. Common Alberta weed fact sheets, a student field note master, and lamenating procedures are included.

Weeds: Adapted for Survival (4-7)

Weeds are examined to determine how they are adapted for survival.

FRENCH LANGUAGE TEXTS

La Belle histoire de l'eau (4-6)

Un malaise dans la prairie (1-4)

LANGUAGE ARTS

Adjective Bingo (3-6)

A language arts/awareness activity is described for Division I students.

Creative Poetry Forms For Environmental Education (1-9)

Different poetry forms and ideas are illustrated that are suitable for expression of environmental experiences.

Creative Writing on A Rope (4-7)

A set of environmental language arts activities using a rope as the focal point.

Crossword Word Hunt (5-7)

A language arts activity involving word searches in the schoolyard environment.

Environmental Language Arts Activities (4-6)

A booklet containing a set of activities relating to language arts and the environment.

Language Arts - Ontario Teachers' Federation (reference)

Thirty-three suggestions of outdoor experiences for valuable and interesting instruction in Language Arts.

Outdoor Language Arts - Alphabet Games (1-6)

A 15-minute field trip activity for the schoolyard with a focus on language development.

Poet-Tree (3-6)

Indoor-outdoor activities for students to observe a tree and develop a poem from their observations.

Working With Words Out-of Doors (3-6)

A set of outdoor activities for students aimed at developing language skills.

MAPPING AND ORIENTEERING

A packet or individual fact finders:

Circular Plot Mapping (4-12)

A simple technique for mapping reasonably small circular plots for such things as animal and plant life. Circular compass master included.

Four Point Compass Game

A reasonably difficult compass game to be played in any open space area for Division III or IV students.

Introductory Compass Game

A first test activity for students learning to use the compass.

Multiple Compass Course Game (7-12)

A complex compass game activity that can be set up in the schoolyard or any open field area.

Plane-Table Mapping - Bearing Intercept Method (6-12)

A technique for mapping areas as large as the schoolyard is described for Division III or IV students (grades 6-12). Circular compass board master included.

MINI-BEASTS

A packet or individual fact finders.

ON LAND:

Fallen Log Post-Mortems (6-12)

An activity involving the dissection of a decaying fallen log for the purpose of finding the tiny animal life involved in the recycling process of decay.

Mini-Beast Book List

Sample pages from books that relate to life in the schoolyard, soil, forest and slough.

Mini Beast Safari (1-6)

Activities and site locations for your mini-beast hunts.

Mini Insectarium (1-6)

How to make a low-cost insectarium.

The Revised Pooter and The Box Magnifier (1-6)

Simple pieces of equipment for capturing and observing tiny soil animals are described.

Soil Animals (4-8)

A listing and tally sheet of commonly found mini-beasts.

Spider, Beetle, Fly, Butterfly, Worksheet

An activity to help students increase their observation techniques. A 'facts on mini beasts' master is included.

Wildlife in Your Backyard (1-6)

A series of activities for schoolyard and neighborhood explorations. Ladybird and earthworms are features min-beasts.

AQUATIC:

Aquatic Animal Life Worksheets (5-9)

Worksheets designed for use by students in an introductory excursion to a pond, slough or lake.

Pond Study (2-5)

A listing of necessary tools student observation sheets and extended activities for indoor pond study.

Pond Study Resources (Reference)

A short bibliography of texts, library resources and teaching guides prepared by Bernie Galbraith.

OBSERVATION AND RECORDING EXERCISES

Comparison Studies: A Way To Organize Outdoor Activities (all grades)

A description of an approach for organizing activities for student studies in the schoolyard.

Focusing (1-6)

A set of elementary activities for outdoor studies.

Gathering Facts - For Fun and Practice (4-9)

An elementary activity set of worksheets for organizing schoolyard fact-seeking on a variety of topics.

An Outdoor Education Technique - Environmental Trivia (1-6)

An activity for classes on a nature hike or participating in a camp program. Especially useful at Division II.

An Outdoor Education Technique - The Question Hunt

A division I or II activity designed to stimulate questioning on the part of students.

Trust Walks (1-6)

A schoolyard activity designed to develop sensory awareness other than visual.

SEASONAL FUN

Autumn Leaves (1-3)

Indoor-Outdoor Activities. Fallen leaves offers students a topic for developing observation, classification and descriptive skills.

Budding Out (1-3)

Indoor-outdoor activities to increase awareness on how buds are formed, how they are in winter, how they "wake up" and what happens next in the cycle of seasonal growth.

Christmas Trees (1-7)

What to do with Christmas trees after Christmas? Activity ideas to increase awareness of the factors or cultural aspects surrounding Christmas and tree growth and identification.

Feely Box Fun (1-3)

Indoor and outdoor activities to increase student awareness, through the sense of touche, of similarities/differences of seasonal change.

Thirty-Second Field Trips (1-6)

Donna Barge's quickie winter outdoor environmental field trip ideas.

To Everthing There is a Season (2-6)

Indoor-outdoor activities involving repeated visits to a natural site to observe seasonal change.

Weed Skeletons (1-3)

Indoor-outdoor activities that have students exploring during fall and winter, change and adaptation of bare branches and plant skeletons.

SKITS AND GAMES

Elementary Outdoor Activities - Skits

A number of skit suggestions for Division I or II are provided.

Find the Numbered Peg Exercise

An outdoor activity for elementary students that can be carried out in the schoolyard.

Outdoor Activities - Schoolyard Nature Trails

A schoolyard activity for Division II students is described.

Plant Scavenger Hunt (1-6)

Indoor-outdoor activity suggestions to create and awareness of the diversity of plants and plant happenings.

A Predator/Prey Outdoor Game (5-7)

A simple game that can be played indoors or outdoors at any time of the year.

A Treasure Hunt (3-7)

An activity to stimulate students to question what they see outdoors.

WATER STUDIES

A packet or in individual fact finders.

Alberta Lakes and Rivers (4-7)

A fact finder designed to familiarize students with the major water bodies in Alberta.

Books on Water for Elementary Students (3-6)

A partial listing of books on water useful for resource centers in elementary schools.

Checking Water Consumption - The Water Meter (3-6)

A fact finder concerning water consumption monitoring useful in areas where home water meters are installed.

Self-Test for the Ardent Water Conserver (3-6)

A fact finder describing some of the things a water conserver can do, but presented as a self-test.

Simple Experiments with Water (4-6)

Three simple activities useful in a unit of study on water and its cycling.

Statistics on Precipitation in Alberta

A fact finder containing monthly rainfall averages for 17 of the towns and cities located across Alberta with activity suggestions included.

Water Management Experiment on Erosion (4-6)

A simple-to-make lab experiment using milk cartons and other no-cost items.

Water Words and Meanings (4-6)

A fact finder that describes a language arts exercise pertaining to simple vocabulary related to water.

WIND STUDIES

Constructing a Wind Speed Measurer (5-8)

How to build a simple anemometer and several wind study ideas.

Go Fly a Kite (2-6)

A Fact Finder to familiarize students with the history, hazards, and fun activities of kite flying. A partial listing of kite books is included.

Instructions on how to make, and patterns for, two kites (Chringa & Sled) are available:

For further information contact:

Communications Branch
Alberta Environment
Oxbridge Place
9820 - 106 Street
Edmonton, Alberta T5K 2J6

Phone: 427-6310

